Product Specification

Smart Media Converter

WGT- 702

WGT- 702S

Version 1.0

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Change History:

Revision	**Date**	**Author**	**Change List**
Version 1.0	2003/1/14	Alan Huang	Initial release

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Reviewed by:	Alan Huang	Approved by:	Tom Shih

1. PRODUCT DESCRIPTION

The Smart WGT-702 / WGT-702S Media Converters support to conversion between IEEE 802.3ab 1000Base-T and 802.3z 1000Base-SX network with SC connector. Ethernet signal that allows two type segments connect easily, efficiently and inexpensively. This converter can be used as a standalone unit or as a slide-in module to the PLANET 19" Intelligent Media Converter Chassis (up to 16 units). With the chassis, the smart converter is able to be managed through the RS-232 Console, Telnet, Web, SNMP agent.

The Smart function includes the Link Pass Through function (LLCF/LLR) and the DIP Switch design. LLCF (default on board)/LLR can immediately alarm administrators the problem of the link media and provide efficient solution to monitor the net. The DIP Switch provides more flexible setting for converters.

LLR (Link Loss Return) means when a device connected to the converter and the fiber line loss the link, the converter's fiber will disconnect the link of transmit. LLCF (Link Loss Carry Forward) means when a device connected to the converter and the TP line loss the link, the converter's fiber will disconnect the link of transmit. Both can immediately alarm administrators the problem of the link media and provide efficient solution to monitor the net.

2. PRODUCT FEATURES

- Compliant with IEEE 802.3ab 1000Base-T, IEEE802.3z 1000Base-FX Gigabit Ethernet Standards
- Provides one 1000Base-T port with RJ-45 connector, one 1000Base-LX/SX port with SC connector supporting either multi-mode fiber or single-mode fiber
- Auto negotiation of duplex mode on TX port
- Auto MDI/MDI-X for TX port
- Link Loss Return (LLR) switch on each fiber optic port to aid in troubleshooting remote network connections
- Link Loss Carry Forward (LLCF) default set on fiber to fiber unit. LLCF work with LLR in diagnosing network connections.
- Extended single-mode fiber optic distance up to 10km
- Wall-mountable
- Used as a stand-alone device or slide-in the 19" Intelligent Media Converter Chassis
- Manageable through the Intelligent Media Converter Chassis system by Web, Telnet, SNMP agent or the RS-232 console

3. PRODUCT SPECIFICATION

3.1 MAIN COMPONENT

Microcontroller:	PHILIPS P87LPC764BN
Transceiver:	Marvell 88E1011S-RCJ

3.2 FUNCTIONAL SPECIFICATIONS

Model	WGT-702	WGT-702S
Standards	IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX	IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-LX
Cable	1000Base-T -- 4 pair Cat. 5, EIA/TIA-568 100-ohm screened twisted-pair (STP), up to 100m 1000Base-SX -- 62.5/125μm multi-mode fiber optic cable, up to 220m 50/125μm multi-mode fiber optic cable, up to 550m to 10km	1000Base-T -- 4 pair Cat. 5, EIA/TIA-568 100-ohm screened twisted-pair (STP), up to 100m 1000Base-LX -- 9/125μm single-mode fiber optic cable, up to 10km
Media Interface	RJ-45 / SC connector	
Duplex Mode	Full Duplex Mode	
LED indicators	PWR, LINK/ACT	

3.3 PHYSICAL SPECIFICATION

Dimensions

88 x 25 x 120 mm (W x H x D)

Weight:

0.4 kg

LED definition

PWR LINK/ACT

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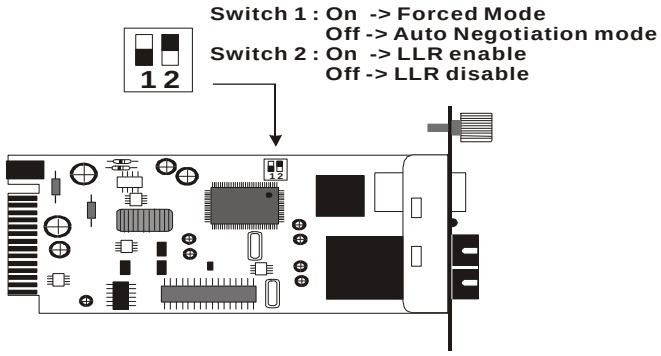
LEDs	State	Indication
PWR (Power)	Lights On	Power on
	Lights Off	Power off
LINK/ACT	Lights On	Linking
	Lights Blinking	Data transmitting and receiving
	Lights Off	Not Linking

DIP Switch



Switch 1	On	Fiber is Forced Mode
	Off	Fiber is Auto-Negotiation
Switch 2	On	LLR enable
	Off	LLR disable

3.4 ENVIRONMENTAL SPECIFICATION

Operating

Temperature: 0~40°C
Relative Humidity: 10~90% RH (non-condensing)

Storage

Temperature: -10~70°C
Relative Humidity: 10~90% RH (non-condensing)

3.5 ELECTRICAL SPECIFICATION

Input Power: External power adapter 7.5V 1.5A
Power Consumption: 7.2 Watts / 24.5BTU (maximum)

3.6 REGULATORY COMPLIANCE

FCC Class B, CE Class B, VCCI Class B

3.7 RELIABILITY

MTBF > 50,000Hrs

3.8 BASIC PACKAGING

1 x Gigabit Ethernet Converter
1 x Power Adapter
1 x User's Manual